

**REMARKS**

Applicant requests the Examiner to withdraw the requirement for a correction of the specification, in the light of the above amendments which insert headings in accordance with the PTO Guidelines. Since there is only one drawing figure in the application, the drawing is properly unlabeled; however, references in the specification to "Figure 1" have been replaced with the proper term "the drawing figure".

Applicant also requests the Examiner to reconsider and withdraw the rejection of claims 1-8 under 35 U.S.C. § 112, second paragraph, in light of the above amendments to claims 1, 6 and 7, and the new claim 9 which recaptures the optional limitation canceled from the parent claim 1.

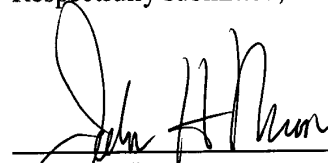
Applicant also respectfully requests the Examiner to reconsider and withdraw the rejection of claims 1-8 on the basis of obviousness-type double-patenting, in view of the concurrently filed Terminal Disclaimer (with fee).

In summary, then, Applicant respectfully requests the Examiner to reconsider and withdraw all requirements and rejections and to find the application to be in condition for allowance with claims 1-9; however, if for any reason, the Examiner feels that the application is not now in condition for allowance, the Examiner is respectfully requested to **call the undersigned attorney** to discuss any unresolved issues and to expedite the disposition of the application.

AMENDMENT UNDER 37 C.F.R. § 1.111  
U.S. APPLN. NO. 09/817,242

Applicant files concurrently herewith a Petition (with fee) for an Extension of Time of one month. Applicant hereby petitions for any extension of time which may be required to maintain the pendency of this application, and any required fee for such extension is to be charged to Deposit Account No. 19-4880.

Respectfully submitted,

  
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Date: January 29, 2003



AMENDMENT TO 37 C.F.R. § 1.111  
U.S. APPLN. NO. 09/817,242

## APPENDIX

### VERSION WITH MARKINGS TO SHOW CHANGES MADE

#### IN THE SPECIFICATION:

**Page 1, before the first paragraph, insert and center the following:**

MASKING DEVICE FOR A FLAT-SCREEN COLOR-DISPLAY  
CATHODE-RAY TUBE WITH A TENSIONED SHADOW MASK MADE OF  
Fe-Ni ALLOYS

#### BACKGROUND OF THE INVENTION

**Page 4, before the first full paragraph, insert and center the following:**

#### SUMMARY OF THE INVENTION

**Page 7, between the third and fourth full paragraphs (between lines 24 and 25),  
insert and center the following:**

#### BRIEF DESCRIPTION OF THE DRAWING

**Page 7, delete the fourth, fifth and sixth full paragraphs, and insert the following:**

The invention will now be described in greater detail and illustrated by examples,  
but in a non-limiting manner, with regard to the appended drawing figure in which:

Figure 1 shows in perspective, schematically, a masking device for a flat-screen  
colour-display cathode-ray tube.

#### DETAILED DESCRIPTION OF THE INVENTION

The masking device for a flat-screen colour-display cathode-ray tube shown in  
~~Figure 1~~ the drawing figure comprises a shadow mask 1 consisting of a foil perforated by a  
plurality of holes 2, and a support frame 3 having lateral uprights 4 (only one of which can be

seen in the figure) and end uprights 5 and 5'. The shadow mask 1 is fixed, for example by welding, to the upper edges 6 and 6' of the end uprights 5 and 5'.

**Page 8, delete the first full paragraph, and insert the following:**

During the mounting operation, the support frame 3 is subjected to compressive forces (small arrows in ~~Figure 1~~ the drawing figure) intended to induce an elastic deformation which reduces the distance separating the end uprights 5 and 5', and the shadow mask is subjected to tensile forces (large arrows in ~~Figure 1~~ the drawing figure) intended to induce an elongational elastic deformation. The shadow mask is then attached to the support frame by welding and the compressive and tensile forces are released. However, elastic deformations of the support frame and of the shadow mask subsist, so that the shadow mask remains under tension.

**IN THE CLAIMS:**

1. (Amended) ~~Masking~~ A masking device for a flat-screen colour-display cathode-ray tube, of the type comprising a support frame for a tensioned shadow mask and a tensioned shadow mask mounted on the support frame so as to be subjected to tension at room temperature, characterized in that:

- the support frame is made of a hardened Fe-Ni alloy having a thermal expansion coefficient between 20°C and 150°C of less than  $5 \times 10^{-6} \text{ K}^{-1}$  and a yield stress  $R_{p0.2}$  at 20°C of greater than 700 MPa;
- the tensioned shadow mask is made of an Fe-Ni alloy having a thermal expansion coefficient between 20°C and 150°C of less than  $3 \times 10^{-6} \text{ K}^{-1}$ ;

the hardened Fe-Ni alloy of which the support frame is made and the Fe-Ni alloy of which the shadow mask is made being chosen in such a way that:

- below a temperature  $T_1$ , the mean expansion coefficient  $\alpha_{20-T}$ , between 20°C and the temperature  $T$ , of the hardened Fe-Ni alloy of which the support frame is made is greater

- than the mean expansion coefficient  $\alpha_{20-T}$ , between 20°C and the temperature T, of the Fe-Ni alloy of which the shadow mask is made,
- above the said temperature T<sub>1</sub>, the mean expansion coefficient  $\alpha_{20-T}$ , between 20°C and the temperature T, of the hardened Fe-Ni alloy of which the support frame is made is less than the mean expansion coefficient  $\alpha_{20-T}$ , between 20°C and the temperature T, of the Fe-Ni alloy of which the shadow mask is made, and
  - the said temperature T<sub>1</sub> is less than 350°C and preferably less than 300°C.

**Please add new claim 9.**

6. (Amended) ~~Tensioned~~ A tensioned shadow mask, characterized in that the made of an Fe-Ni alloy having a chemical composition of the Fe-Ni alloy is such that:

$$32\% \leq \text{Ni} + \text{Co} + \text{Cu} \leq 35.5\%$$

$$0\% \leq \text{Co} \leq 4\%$$

$$0\% \leq \text{Cu} \leq 2\%$$

$$0\% \leq \text{Nb} + \text{Ta} + \text{Mo} + \text{W} + \text{Zr} < 0.2\%.$$

7. (Amended) ~~Tensioned~~ A tensioned shadow mask, characterized in that the made of an Fe-Ni alloy having a chemical composition of the Fe-Ni alloy is such that:

$$33.5\% \leq \text{Ni} + \text{Co} + \text{Cu} \leq 37\%$$

$$0\% \leq \text{Co} \leq 5.5\%$$

$$0\% \leq \text{Cu} \leq 2\%$$

$$0.2\% \leq \text{Nb} + \text{Ta} + \text{Mo} + \text{W} + \text{Zr} \leq 2\%.$$